

ABSORBENT COMPOSITES COMPRISING SUPERABSORBENT MATERIALS

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ABSTRACT OF THE INVENTION

The present invention is directed to absorbent composites having enhanced intake properties. The absorbent composites have a Composite Permeability (CP) value at full swelling of greater than about $100 \times 10^{-8} \text{ cm}^2$. Further, the absorbent composites have a Composite Permeability/3rd Insult Fluid Intake Flowback Evaluation (FIFE) intake relationship, which results in enhanced intake properties. The present invention also provides a method of making absorbent composites having enhanced intake properties. The present invention further provides absorbent composites and their applicability in disposable personal care products. The present invention utilizes superabsorbent materials having a Gel Bed Permeability (GBP) value of greater than about $70 \times 10^{-9} \text{ cm}^2$ and an Absorbency Under Load (AUL) value at 0.6 psi of less than about 25 g/g.

DEPARTMENT OF COMMERCE

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